AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

What is claimed is:

1. **(Currently Amended)** An optical coupling system comprising:

a post having first and second ends, wherein the post has a height of between about 30 microns and about 250 microns;

a microlens situated on the first end of said post; and

a window having a first side proximate to said microlens and having a second side.

2. **(Original)** The system of claim 1, wherein:

the second end of said post is an input for light; and

the second side of said window is an exit for the light.

3. **(Original)** The system of claim 2, wherein:

the exit for the light may be proximate to an optical fiber; and

the input may be proximate to a light source.

4. **(Original)** The system of claim 3, wherein:

said post comprises an epoxy material;

said microlens comprises an epoxy material; and

said window comprises glass.

5. **(Original)** The system of claim 3, wherein the optical fiber may be single mode fiber.

6. **(Original)** The system of claim 5, wherein the optical fiber is in contact with the second side of said window.

7. **(Original)** The system of claim 5, wherein the optical fiber is at a distance from the second side of said window.

8. **(Original)** The system of claim 5, wherein the light source may be a vertical cavity surface emitting laser (VCSEL).

9. **(Original)** The system of claim 5, wherein said post is situated proximate to the light source and on a wafer having the light source.

10. **(Original)** The system of claim 5, wherein said microlens is a spherical lens.

11. **(Original)** The system of claim 10, wherein said microlens is an ink-jet formed lens.

12. **(Original)** The system of claim 5, wherein said microlens is an aspherical lens.

13. **(Original)** An optical coupling system comprising:

an array of posts, wherein each post has a height of between about 30 microns and about 250 microns;

a microlens situated on a first end of each post of said array of posts; and

a window having a first surface proximate to each microlens of said array of posts.

14. **(Original)** The system of claim 13, wherein:

each post has a second end proximate to a radiation source; and

a second surface of said window is proximate to an optical fiber for receipt of radiation from each microlens of said array of posts.

15. **(Original)** The system of claim 13, wherein:

each post has a second end proximate to a detector; and

a second surface of said window is proximate to an optical fiber corresponding to each microlens.

16. **(Original)** The system of claim 14, wherein:

each post comprises an epoxy material; and

each microlens comprises an epoxy material.

17. **(Original)** The system of claim 16, wherein said window comprises a glass material.

18. **(Original)** The system of claim 14, wherein the optical fiber is single mode fiber.

19. **(Original)** The system of claim 18, wherein the radiation source is a VCSEL.

20. **(Original)** The system of claim 18, wherein the optical fiber is spaced at a distance from the second surface of said window.

21. **(Original)** The system of claim 18, wherein the optical fiber is in contact with the second surface of said window.

22. **(Original)** The system of claim 18, wherein each microlens is a spherical lens.

23. **(Original)** The system of claim 18, wherein each microlens is an aspherical lens.

24. **(Original)** The system of claim 23, wherein each microlens is an ink-jet formed lens.

25. **(Currently Amended)** An optical coupling system comprising:

a substrate having a plurality of optoelectronic elements formed on said substrate;

a plurality of posts formed over the plurality of ~~posts~~optoelectronic elements on said substrate;

a plurality of lenses formed on said posts;

a window situated proximate to said plurality of lenses, wherein the window is about 300 microns thick; and

a plurality of optical fibers proximate to said window.

26. **(Original)** The system of claim 25, wherein the optoelectronic elements are light sources.

27. **(Currently Amended)** An optical coupling system comprising:

an optoelectronic element;

a place for an end of an optical medium; and

a lens situated between said optoelectronic element and place for an end of optical medium, wherein the lens has a thickness of between about 20 microns and about 600 microns.

28. **(Original)** The system of claim 27, wherein said lens is an aspherical lens.

29. **(Original)** The system of claim 28, wherein said medium is an optical fiber.

30. **(Original)** The system of claim 29, wherein said place for an end of an optical medium is a fiber stop.

31. **(Original)** The system of claim 30, wherein said aspherical lens comprises a non-glass material.

32. **(Original)** The system of claim 31, wherein said optoelectronic element is a detector.

33. **(Original)** The system of claim 31, wherein said optoelectronic element is a light source.

34. **(Original)** The system of claim 33, wherein said light source is a vertical cavity surface emitting laser.

35. **(Original)** The system of claim 34, wherein the said aspheric lens comprises a plastic material.

36. **(Original)** The system of claim 35 wherein said optical fiber is single mode optical fiber.

37. **(Currently Amended)** An optical coupling system comprising:

an optoelectronic element situated about an optical axis;

an aspherical lens situated about the optical axis, wherein the aspherical lens has a thickness of between about 20 microns and about 600 microns; and

a place for an optical fiber situated about the optical axis.

38. **(Original)** The system of claim 37, wherein said aspherical lens comprises a non-glass material.

39. **(Original)** The system of claim 38, wherein said optoelectronic element is a detector.

40. **(Original)** The system of claim 38, wherein said optoelectronic element is a light source.

41. **(Original)** The system of claim 40, wherein said optoelectronic element is a vertical cavity surface emitting laser.

42. **(Original)** The system of claim 41, wherein said optical fiber is a single mode fiber.

43. **(Currently Amended)** A method for making a lens on a post, comprising:

placing a first layer on a wafer;

forming a first pattern on the first layer;

placing second layer on the first layer;

forming a second pattern on the second layer; and

developing the patterns; and

wherein the developing the patterns results in a plurality of posts having wells, the plurality of posts each having a height of between about 30 microns and about 250 microns.

44. **(Original)** The method of claim 43, further comprising placing a material in the wells to form lenses.

45. **(Original)** The method of claim 44, wherein the material is a plastic.